

~~SECRET~~ ~~CONFIDENTIAL~~

XXXXXXX AGENCY

4 August 1948

25X1

Dear Mac:

The following specifications show the desired voltage and current characteristics of the generator to be used in connection with Contract RD-1:

Generator characteristics

a. Duty continuous for a simultaneous output of 400 volts DC at 100 MA; 100 volts DC at 15 MA; 6 volts DC at 2 amps; 1.25 volts DC at 300 MA.

Maximum permissible ripple shall be 3% for the 400 volt supply; .05% for the 100 volt supply; and .07% on the 1.25 volt supply.

Regulation of the 100 volt supply shall be plus and minus 2%.

Regulation of the 1.25 volt supply shall be plus and minus 1%.

With regard to the use of 400 cycles we have had some experience with these units and, in fact, do have in our possession a quantity of 400 cycle permanent magnet alternators which might be used in connection with this project; however, the employment of such a power unit requires that a power supply will have to be used with the equipment for which the power is intended and it was our desire to eliminate this conversion. It might also be noted that when 400 cycle is applied to the filament of the tubes, particularly a filament-type-tube, the 400 cycle frequently appears in the output of the equipment, especially in the case of receivers unless such precautions are taken to eliminate this condition. This is considered to be a disadvantage for our purpose.

We are in receipt of your first invoice under this contract and would like to suggest that in the future the vouchers for this particular contract should be addressed as follows: Mr. James H. Drum, P. O. Box 1929, Washington 25, D. C. Unless I am mistaken this was provided for in this contract.

The excellent reports submitted in connection with our various projects have been well received here. Many thanks.

Best regards,

25X1

RDC:mp

~~SECRET~~